

CAIMS OSE

Parallel System Testing

CAIMS OSE Parallel System Testing

- Turn on the new CAIMS-OSE system
- Feed live data to both legacy and OSE (parallel)
- Have selected users use both systems to enter data, retrieve information and generate reports (parallel)
- Test in phases to ensure specific that functions/programs are working correctly

Purpose

- Purpose 1: To ensure that OSE ATR/TIR data processing functions (end-to-end) using live data feeds and actual end users
- Purpose 2: To ensure that OSE is fully functional and is acceptable to the end users
- Purpose 3: To ensure that OSE is fully operational prior to retiring the legacy CAIMS system

Test Phases

- Phase 1: Message and transaction processing
- Phase 2: Error transaction processing
- Phase 3: Requisition processing
- Phase 4: NCEA process
- Phase 5: Allowance process
- Phase 6: NAR process
- Phase 7: Tech Data process

Phase break down

- Overview/purpose
- Requirement/pre-requisite to test
- Requirements to verify
- Input
- Output
- Analysis

Personnel requirements

- Control staff
- Analysis support
- Testers
- Development staff
 - programmers for each application need to be available (on-site) during phase of test where their software is being evaluated.

Phase 1: Message/transaction processing

- Reads in and processes RAW data messages/transactions that are submitted via Autodin and DAAS from fleet users
- Validate that messages were read and transaction data is properly processed into the database
- Sends transactions that have errors in them to Phase 2: NORM

Phase 1: Message/transaction processing

- Needed to read/process messages
 - CAI (b) Reads Raw message files into DB
 - TBI Processes TIR messages and updates DB
 - AAM Processes ATR messages and updates DB
 - RTP Processes REQN messages and updates DB
 - ARR Asset updates
 - DMS Process FTE

Phase 1: Message/transaction processing

- Need to verify data
 - ARR Asset retrievals/reports
 - RQR Document history/retrievals
 - SIS SLIT retrievals
 - SBI PLR data retrieval
 - PRR PRP retrievals
 - SUT Unmatched issues/receipts
 - CAI (o) Read/confirm messages picked up in database

Phase 1: Message/transaction processing

- Input

- Fleet

- LANT

- Weapon Station

- Air station

- Ship

- PAC

- Weapon Station

- Air station

- Ship

- NALC

- IMs

- AMMOs

- ATR/TIR Techs

Phase 1: Message/transaction processing

- Output
 - Updated database
 - Metrics (count data)
 - number of messages
 - number of transactions
 - ATRs
 - TIRs
 - Milstrips
 - Reports/retrievals
 - unmatched issue/receipts
 - PLR reports
 - Asset reports

Phase 1: Message/transaction processing

- Analysis
 - Compare record counts
 - Message count (Autodin/Daas)
 - TIR
 - ATR
 - SLIT
 - Intransits
 - Ammo Milstrips (Reqn's)

Phase 1: Message/transaction processing

- Analysis (cont)
 - Compare record counts
 - Message count (Autodin/Daas)
 - TIR (D4, D6, D7, D8, D9, AEs, A4, DZ's)
 - ATR (C' D' X' F' J')
 - SLIT (serial No count vs asset count)
 - Intransits (unmatched issues/receipts)
 - Ammo Milstrips (Reqn's) (auto referral ?)
 - Asset record (on hand/due out/due in)
 - Report/retrieval comparison
 - Compare OSE to legacy

Phase 2: Error transaction processing

- Will compare and analyze transactions with errors that are sent to the NORM module.
- Comparison of error transactions sent to NORM will be compared with those sent to AIMS (legacy)
- Ability of on-line correction software to fix transactions (TOU, SOU, ALE,)

Phase 2: Error transaction processing

- Needed to start phase
 - Everything from phase 1
 - Error handling and routing software
 - NORM
 - TOU
 - SOU
 - ALE
 - IMD
 - MTR

Phase 2: Error transaction processing

- Need to verify data
 - CAI o Raw/processed message retrievals
 - ARR Asset retrievals/reports
 - RQR Document history/retrievals
 - SIS SLIT retrievals
 - SBI PLR data retrieval
 - SUT Unmatched issues/receipts
 - DOU Disposition on line

Phase 2: Error transaction processing

- Input

- Fleet *

- LANT

- PAC

- Weapon Station
 - Air station
 - Ship
 - Weapon Station
 - Air station
 - Ship

- Phase 1 data/transactions

* input from fleet will have specific transactions that have been generated to test the error traps in OSE

Phase 2: Error transaction processing

- Output
 - Updated database
 - Metrics (count data)
 - Error counts
 - Error type/designation counts
 - LRC assignments
 - Reports/retrievals
 - Ability to correct errors
 - ATR/TIR tech
 - IM's
 - OUTGOING Error Corrections (ATR/TIR messages) *

*** DO NOT RELEASE MESSAGES**

Phase 2: Error transaction processing

- Analysis
 - Compare record counts
 - Message comparison (Autodin/Daas)
 - Classification of outgoing messages
 - Content of outgoing messages
 - Reports/retrievals
 - Hold up to light

Phase 3: Requisition Processing

- Will compare and analyze ability of OSE to support the requisition processing functions
- Passing messages/instructions
- Dropper coded items
- Special items
- Bounce backs
- Action types (RTPs, MTRs, RTs, A2, A4, A5)

Phase 3: Requisition Processing

- Needed to start phase
 - Everything from phase 1 & 2
 - Routing and decision software
 - NORM
 - IMD
 - BOB
 - DOU
 - TRO
 - TIV
 - MTR

Phase 3: Requisition Processing

- Need to verify data
 - CAI o Raw/processed message retrievals
 - ARR Asset retrievals/reports
 - RQR Document history/retrievals
 - SIS SLIT retrievals
 - SBI PLR data retrieval
 - SUT Unmatched issues/receipts
 - BOB Backorder

Phase 3: Requisition Processing

- Input

- Fleet *

- LANT

- PAC

- Weapon Station

- Weapon Station

- Air station

- Air station

- Ship

- Ship

- Phase 1 data/transactions

* input from fleet will contain requisition data and have specific transactions that have been generated to test the OSE processes

Phase 3: Requisition Processing

- Output
 - Updated database
 - Metrics (count data)
 - Requisition count
 - For referrals
 - For bouncebacks
 - LRC assignments
 - Reports/retrievals
 - Ability to work requisitions
 - IMs
 - AMMOs
 - OUTGOING TIR messages *

*** DO NOT RELEASE MESSAGES**

Phase 3: Requisition Processing

- Analysis
 - Compare record counts
 - Message comparison (Daas)
 - Content of outgoing messages
 - Reports/retrievals
 - Hold up to light

Phase 4: NCEA processing

- Will confirm the functionality and data accuracy of the NCEA processes
- Will be based on initial loadouts, allocations and sub-allocation of NCEA down to unit (UIC) level)
- Will cover NALC, ComFLT, and TyCom allocation

Phase 4: NCEA processing

- Needed to start phase
 - Profile of initial load outs
 - Have Ray Secord identify data
 - Designated units/ships
 - COMFLT and Type commander inputs
 - UIC data
 - NCEA software

Phase 4: NCEA processing

- Need to verify data
 - NCEA NCEA software
 - RQR Document History
 - ARR Asset Retrievals and reports
 - IMD (RTP7 vs RTP2 if requisitions are
over allocation and allowance

Phase 4: NCEA processing

- Input
 - NALC
 - Initial OPNAV Allocation table
 - Authorized substitute list
 - New/modification to allocation
 - Fleet
 - LANT /PAC
 - Initial allocation of NCEA
 - Type commander
 - Assignment of allocation by UIC (sub-allocation)

Phase 4: NCEA processing

- Output
 - Updated database
 - Reports/retrievals
 - Ability to enter NCEA
 - COMFLT
 - TYCOM's
 - Check document flow
 - Check sublist of allocation for updates
 - Check for changes to UIC allocation
 - Check that UIC's roll up to TYCOM and that roll up matches allocation

Phase 4: NCEA processing

- Analysis
 - Compare record counts
 - Compare % of use
 - Reports/retrievals
 - hold up to light
 - NCEA message
 - compare to legacy
 - Confirm can not allocate MORE that was sub-allocated
 - Check UIC & roll up numbers

Phase 5: Allowance

- Will confirm that the allowance module functions properly
- Will be based upon the NAVSEA allowance list
- Will have input from the fleet interim allowance list
- Tailored allowance list
- Approved Basic Stock Level of Ammunition (ABSLA)

Phase 5: Allowance

- Needed to start phase
 - Everything from Phase 1, 2 & 3
 - Routing and decision software
 - ALO
 - NORM
 - IMD
 - NAVSEA Allowance list
 - New
 - Old for deletion
 - Revision for modification

Phase 5: Allowance

- Needed to start phase (cont)
 - Fleet Interim Allowance list
 - New
 - Old for deletion
 - Revision for modification
 - Tailored Allowance list
 - New
 - Old for deletion
 - Revision for modification
 - ABSLA list
 - New
 - Old for deletion
 - Revision for modification

Phase 5: Allowance

- Need to verify data
 - ALO Allowance Module
 - IMD Item Manager Decision Module
 - Retrievals and reports

Phase 5: Allowance

- Input
 - NALC
 - NAVSEA, ABSLA
 - Fleet
 - LANT /PAC
 - Interim list
 - Tailored list

Phase 5: Allowance

- Output
 - Updated database
 - ALO
 - NAVSEA 30,000 Message *
 - ABSLA Message *
 - Information to Tech Agent to update REVISION Number for NEW 30,000 allowance (process flow)

* DO NOT RELEASE MESSAGES

Phase 5: Allowance

- Analysis
 - Compare RTP7 over Allowance & requisitions
 - Compare data to NAVSEA messages
 - Compare with legacy
 - hold up to light

Phase 6: NAR

- Will be compare the legacy NAR process to the OSE NAR process to ensure that NAR, OHF and AIN messages may be properly created and tracked
- Will examine the NEW NAR compliance module
- Will ensure that NAR retrievals and reports are useful, complete, and accurate

Phase 6: NAR

- Needed to start phase
 - ALL NAR, OHF, and AIN data from legacy
 - NAR management, retrieval and report software
 - ISS NAR issuance
 - IMP NAR impact assessment
 - MAL NAR malfunction history retrievals/reports
 - CMP NAR compliance module

Phase 6: NAR

- Need to verify data
 - ISS
 - To generate messages
 - MAL
 - Malfunction history reports
 - CMP
 - Compliance
 - ARR (Asset retrievals/reports)

Phase 6: NAR

- Input
 - NALC
 - Data for NAR, OHF, AIN
 - NEW
 - Revision
 - Delete
 - Other Service Supplement numbers

Phase 6: NAR

- Output
 - Updated database
 - Impact assessment
 - Malfunction reports
 - Compliance report
 - Outgoing messages *

* DO NOT RELEASE MESSAGES

Phase 6: NAR

- Analysis
 - Compare messages
 - NAR
 - OHF
 - AIN
 - Message comparison
 - Reports/Retrievals
 - Confirm asset changes from incoming messages

Phase 7: Tech Data

- Will ensure that the process of entering, tracking and maintaining Technical Data in OSE is functional and consistent with legacy
- Will test the ability of the catalogers, tech agents and users to enter, modify and access tech data

Phase 7: Tech Data

- Needed to start phase
 - New Tech data information
 - New NIIN and data profile
 - Tech data software
 - TDM

Phase 7: Tech Data

- Need to verify data
 - Tech data software
 - TDM
 - Reports and retrievals

Phase 7: Tech Data

- Input
 - NALC
 - Tech data set
 - New
 - Modifications
 - Superceeded
 - Other (Tech agents)
 - Tech data set
 - New
 - Modifications

Phase 7: Tech Data

- Output
 - Updated database
 - New tech data DDL for ROLMS *
 - Reports and retrievals

* DO NOT RELEASE DDL

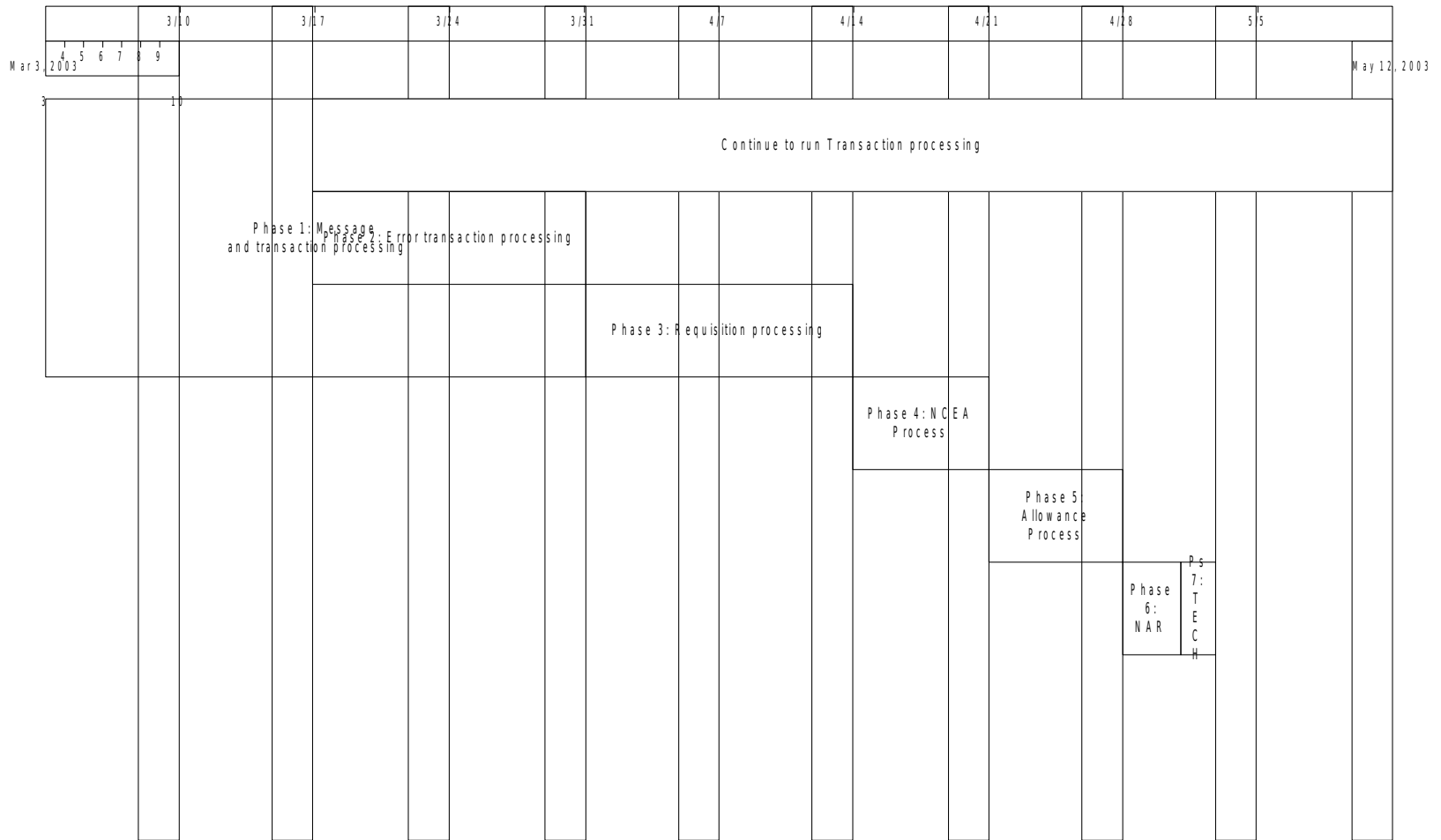
Phase 7: Tech Data

- Analysis
 - Compare DDL to legacy
 - Examine data records updated
 - Work flow check sheet

Parallel Testing Users

- Parallel test users will include
 - All NALC (IM/Ammo)
 - Selected fleet users

Testing Time line



Test Data

- Specific transaction package
- Specific error list (minimum)
 - others may come in, in daily messages
- Specific requisition (or combination)
- Specific allowance/NCEA list
- Specific NAR

Test Hardware

- NALC (IMs/AMMOs) will need
 - Legacy CAIMS terminal
 - CAIMS-OSE
- Fleet
 - ROLMS
 - Legacy CAIMS
 - CAIMS-OSE